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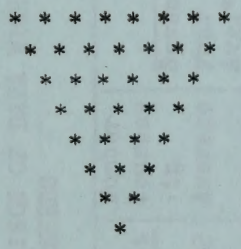
SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for the

COLORADO RIVER DRAINAGE BASIN

April 1, 1942



Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

April 10, 1942

SNOW SURVEYS AND IRRIGATION WATER FORECASTS
for
COLORADO RIVER BASIN
April 1, 1942

The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the Division of Irrigation, Soil Conservation Service, U. S. Department of Agriculture, in cooperation with State departments, other federal bureaus and local organizations. The snow measurements are made principally by field personnel of the following Federal Government organizations: Forest Service, National Park Service, Geological Survey, Bureau of Reclamation, Indian Service; and the Utah Agricultural Experiment Station. This work is otherwise conducted cooperatively with the State Engineers of Utah and Colorado, State Planning Board of Wyoming, U. S. Geological Survey, Utah and Colorado Agricultural Experiment Stations, and various municipalities, irrigation associations, power companies, and others. Precipitation records are supplied by the U. S. Weather Bureau.

SUMMARY OF APRIL 1 SNOW SURVEYS AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

WATERSHEDS	Snow Depth			Water Content			Number Courses in Average	Snow Density			1942 Water Content in percent of	
	Seven Year Avg.*	1941	1942	Seven Year Avg.*	1941	1942		Seven year Avg.*	1941	1942	Seven Year Avg.*	1941
COLORADO RIVER	In.	In.	In.	In.	In.	In.		Percent	Percent	Percent		
Green River	40.3	37.3	43.0	12.4	11.1	11.5	26	31	30	27	93	104
Colorado River**	43.6	38.7	46.0	13.1	11.4	13.0	20	30	29	28	99	114
Yampa River	56.7	47.0	60.9	19.0	14.9	18.0	5	34	32	30	95	121
White River	51.2	51.1	54.8	17.6	16.6	18.6	2	34	32	34	106	112
Gunnison River	50.9	53.5	56.0	16.1	17.2	16.6	11	32	32	30	103	97
Dolores River	38.0	39.9	40.8	11.9	13.4	11.8	4	31	34	29	99	88
San Juan River	46.0	59.4	44.8	16.2	20.2	15.4	7	35	34	34	95	76
Gila River	0.6	2.4	0.3	0.2	0.9	0.1	9	33	37	33	50	11
Colorado River***	43.5	43.8	52.2	14.5	15.0	16.3	7	33	34	31	112	109
Virgin River	44.5	48.1	45.5	15.8	18.6	17.2	5	35	39	38	109	92

*Some for shorter periods
**Above Grand Junction, Colorado
***Green to Virgin River

PRECIPITATION DATA
(Based on incomplete returns)

WATERSHED	STATE	Precipitation October 1 to March 31	Departure from Normal	Precipitation March	Departure from Normal
		Inches	Inches	Inches	Inches
Colorado	Colorado	11.50	+2.74	1.86	-0.08
Green	Wyoming	5.26	+1.94	0.56	-0.13
San Juan	New Mexico	6.07	+0.93	0.74	-0.16
Gila	Arizona	7.56	-0.23	0.56	-0.71
Gila	New Mexico	4.63	-0.63	0.14	-0.66

Precipitation on the watershed of the Colorado River and its tributaries in Colorado, Wyoming, New Mexico and Arizona was below normal during March. The greatest deficiency for the month occurred on the Gila drainage. The accumulated precipitation since October 1 is above normal except on the watershed of the Gila in Arizona and New Mexico.

WATER SUPPLY OUTLOOK

Colorado River and Tributaries in Colorado. - On the main Colorado River watershed, above Grand Junction, the snow depth is slightly more than the past seven-year average. The water content is about the same as the seven-year average and 14 per cent more than last year at this time. The April-July runoff for 1942 is expected to be about 1,400,000 acre-feet as based on the flow at Glenwood Springs, or approximately 80 percent of the normal discharge of this stream. The water content of the snow on the headwaters of the Yampa and White Rivers is in excess of the amount observed last year at this time. The expected flow in these streams will be normal this coming season: Yampa, at Steamboat Springs, 270,000 acre-feet, and the White, at Meeker, 275,000, for the period April to July, inclusive.

The runoff in the Gunnison this coming season will be normal, with expected high water in early June. The water content of the snow over this drainage now equals the past seven-year average. On the Grand Mesa, area tributary to this stream, the snow depth on Trickle Divide was found to be nearly 100 inches, containing 30 inches

DESCRIPTION DATA

(numéro séquentiel de base)

WATER SUPPLY OUTLOOK - Cont'd.

of water. Because of the heavy fall precipitation, the mountain soils were well saturated and some fear is expressed as to the safety of a few earth-filled reservoir dams. Conditions on the Dolores are somewhat less promising. The water content of the snow now is equal to the past seven-year average and about 12 percent under that of last April. The coming summer runoff will be normal and less than in 1941. Soil moisture conditions throughout the western part of Colorado are now good to excellent, due to an abundant autumn rainfall over this area. Present stream flow is normal or better but somewhat retarded because of cold weather in the high mountain country. Storage in irrigation reservoirs over the Western Slope is now well advanced, with full assurance of filling before the irrigation season starts. Taylor Park Reservoir now stores 75,000 acre-feet, which is nearly three-quarters of total capacity.

San Juan River.- The present water supply outlook for the San Juan indicates less runoff this coming season in comparison with that of 1941. The water content of the snow cover on this drainage is only about three-quarters of that of a year ago but practically in line with the past seven-year average. On the Upper San Juan snow course at the headwaters of this stream, near the top of Wolf Creek Pass, the snow depth is 93 inches and contains 33 inches of water. For the Animas River, at Durango, the April-July runoff this season will not exceed 400,000 acre-feet. In southwestern Colorado the farm lands are in good to excellent condition as regards soil moisture. Stream flow at this time is increasing somewhat, due to melting of the low snow. The winter runoff has been normal. Reservoirs are now well filled, with good assurance of reaching capacity in June. Water is now being released from the Vallecito Reservoir on the Pine River.

Gila and Salt Rivers. - The snow cover over these drainages is confined to the high elevations. All snow courses in the vicinity of Alpine and McNary, in Arizona, are bare. At present there is 8 to 10 inches of snow on Bradshaw and Mingus mountains at the higher elevations and the runoff from this section is expected not to exceed one-quarter of that of last year. The outlook for the coming season's water supply in the Gila and Salt Rivers is not promising as based on snow resources. Soil moisture conditions, in agricultural areas, are generally good to fair; streams are running clear, in amounts slightly less than a year ago. The aggregate storage in the main reservoirs on Salt River is 1,678,960 acre-feet, as compared with 1,684,650 a year ago. In the San Carlos Reservoir there are 817,800 acre-feet in storage, as compared with 670,000 last year. San Carlos now stands at five-eighths its full capacity.

Green River.- The water content of the snow cover on the headwaters of this stream is identical with that of last year. The April-July runoff will approximate 740,000 acre-feet at Linwood, Utah, or 90 percent of the normal for this period.

WATER SUPPLY OUTLOOK - Cont'd.

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COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys

Issued April 10, 1942, at Fort Collins, Colorado

No.	Main Drainage and Snow Course	Local Drainage	Location			Elev.	National Forest	Apr. 1 Snow Cover Measurements					
			State	Locality	Description			Av. Snow Depth			Av. Water Content		
								Av.@	1941	1942	Av.@	1941	1942
								In.	In.	In.	In.	In.	In.
	GREEN RIVER												
7	East Rim Divide	Fish Creek	Wyo.	13mi.SE.Bondurant	32-37N-111W	7950	Teton	37.9	31.6	32.1	11.4	11.0	7.8
23	Dutch Joe R.S.	Dutch Joe Cr.	"	12mi.N.Elkhorn	33-31N-104W	8700	Wyoming	29.1	28.4	32.8	7.5	6.5	6.2
24	Mulligan Park	Surveyor Cr.	"	Fremont Lake	17-35N-108W	8900	"	35.8	27.7	32.2	9.6	7.0	8.6
25	Kendall R.S.	Green River	"	27mi.NW.Pinedale	23-38N-110W	7900	"	30.0	25.9	24.9	10.4	8.1	8.2
26	Loomis Park	Beaver Cr.	"	25mi.NW. "	14-37N-111W	8500	"	45.4	34.0	37.6	14.6	9.8	9.0
27	Snyder Basin R.S.	S.Piney Cr.	"	22mi.W.Big Piney	15-29N-114W	8040	"	33.6	35.1	33.9	9.6	9.5	9.1
28	Piney-LaBarge	LaBarge Cr.	"	24mi.W.Big Piney	19-29N-114W	8320	"	45.5	41.2	46.6	14.0	12.5	12.9
29	Daniels-Strawberry	Strawberry R.	Utah	20mi.NE.Provo	17&20-2S-12W	8000	Uinta	42.8	34.0	43.0	14.5	11.1	13.4
28	Lost Lake	Provo River	"	18mi.E.Kamas	4&5-2S-9E	9900	Wasatch	66.8	51.4	65.7	23.5	17.7	21.6
33	East Portal	Strawberry L.	"	25mi.E.Provo	36-7S-6E	7600	Uinta	37.0	34.0	39.6	12.8	10.3	11.8
33A	E.Port.Strawbry.D.	" "	"	24mi.E.Provo	34&35-7S-6E	8000	"	59.2	55.4	56.1	21.0	16.9	18.1
34	Hewinta R.S.	West Fork	"	33mi.SE.Evanston	33-3N-13E	9500	Wasatch	33.2	--	41.2	8.1	--	10.7
35	Hole-In-Rock	Beaver Cr.	"	47mi.SE. "	13-2N-15E	9150	Ashley	24.3	21.6	35.7	5.4	5.0	5.8
36	Lake Fork Mtn.	YellowstoneCr.	"	4mi.E.Moon Lake	2&3-2N-5W	10500	"	44.3	40.5	56.5	9.5	9.1	11.4
37	Paradise Park	Whiterocks R.	"	25mi.NW.Vernal	7-3N-1E	10500	"	42.3	39.9	52.3	10.4	9.6	11.7
38	Mosby Mtn.#1	" "	"	22mi. " "	5-2N-1E	9700	"	36.7	36.5	42.6	9.2	9.9	8.5
38A	Mosby Mtn. #2	" "	"	" " "	5-2N-1E	9500	"	39.2	42.1	48.4	9.4	8.2	8.7
39	King's Cabin #1	Brush Creek	"	18mi.N.Vernal	22-1S-21E	8300	"	35.4	33.3	35.7	8.8	8.9	7.1
39A	King's Cabin #2	" "	"	" " "	23&26-1S-21E	8600	"	31.5	31.9	32.3	8.1	8.9	7.1
40	Indian Canyon	Strawberry R.	"	27mi.SW.Duchesne	2-11S-10E	9100	Uinta	36.0	35.3	42.2	8.9	8.7	9.2
41	Gooseberry Res.	Gooseberry Cr.	"	7mi.NE.Fairview	25-11S-5E	8700	Manti	60.1	55.2	63.0	22.2	20.3	20.3
42	Mammoth R.S.	" "	"	" " "	13&23-13S-5E	8800	"	64.4	60.3	64.7	23.5	21.7	22.1
42A	Stahley Ranch	Clear Cr.	"	1mi.N.Scofield	32-12S-7E	7600	OffForest	15.1	14.5	24.3	4.6	3.9	5.3
42B	Dry Valley Divide	Fish Creek	"	7mi.NE. "	20-12S-8E	7800	" "	27.2	25.8	34.1	8.1	7.3	8.3
42C	Clear Creek	Clear Creek	"	1mi.N.Clear Cr.	28-13S-7E	8150	" "	18.1	22.4	25.2	6.2	7.7	6.8
43	Hntngtn-Horseshoe	Huntington Cr.	"	7mi.E.Fairview	12&13-14S-5E	9800	Manti	77.8	74.4	80.4	28.1	26.9	27.1
53	Widtsoe Escalante	E.Fk.Escalante	"	6mi.E.Widtsoe	22-34S-1W	9500	Powell	31.7	36.6	35.3	10.5	13.3	12.2
					Average for Drainage			40.3	37.3	43.0	12.4	11.1	11.5

@Average for period of record.

COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys

Issued April 10, 1942, at Fort Collins, Colo.

No.	Main Drainage and Snow Cover	Local Drainage	Location: State	Locality	Description	Elev.	National Forest	Apr. 1 Snow Cover Measurements: Av. Snow Depth: Av.@	1941	1942	Av. Water Content: Av.@	1941	1942
	COLORADO RIVER (Above Grand Junction)							In.	In.	In.	In.	In.	In.
7	Park View*	Willow Cr.	Colo.	7mi.SE.Rand	24-5N-78W	9200	Routt	34.9	25.6	34.3	11.2	8.0	9.7
12	Phantom Valley	Colorado R.	"	11mi.N.Grand L.	7-5N-75W	9300	Ry.Mtn.N.P.	33.9	27.0	32.6	10.0	7.7	8.8
16	Berthoud Pass	Fraser R.	"	4mi.S.West Port.	35-2S-75W	9700	Arapaho	53.1	46.9	50.2	16.0	15.4	14.1
19	Tennessee Pass*	Eagle River	"	Tennessee Pass	21-8S-80W	10200	Cochetopa	36.7	33.1	40.1	9.1	8.9	10.5
33	Ind.Pass Tunnel	Lincoln Gulch	"	W.Port.Tunnel	30-11S-82W	10200	Holy Cross	53.6	46.0	54.3	17.8	14.1	15.6
34	N.Lost Trail Cr.	Crystal R.	"	3mi.E.Marble	20-11S-87W	9200	" "	46.2	43.6	52.6	14.1	8.9	14.0
37	M.Fork Camp Gr.	Williams Fk.	"	13mi.N.Dillon	16-3S-77W	9000	Arapaho	35.5	30.6	43.4	10.2	9.7	13.4
44	Fiddler Gulch	Eagle River	"	2mi.E.Mitchell	1-8S-80W	11000	Holy Cross	51.9	47.8	54.2	14.1	12.9	16.8
45	Nast	Frying Pan R.	"	23mi.SE.Basalt	1-9S-83W	8700	" "	21.1	16.0	22.4	6.4	4.8	6.2
54	Maroon Lake	MaroonCreek	"	8mi.SW.Aspen	7-11S-85W	9300	" "	40.6	39.6	49.4	12.9	12.8	14.5
56	Mesa Lakes	Mesa Creek	"	15mi.E.Palisade	35-11S-96W	10000	Grand Mesa	61.2	67.4	79.6	19.3	23.7	23.5
59	Lulu	Lulu Creek	"	14mi.N.Grand L.	25-6N-76W	10200	Ry.Mtn.N.P.	52.3	39.8	48.2	16.2	11.0	14.0
62	Willow Creek P.	Willow Cr.	"	Willow Cr.Pass	1-4N-73W	9500	Arapaho	43.7	34.1	43.7	13.1	10.2	11.8
64	N.Inlet Grand L.	N.Inlet Cr.	"	4mi.NE.Grand L.	26-4N-75W	9000	Ry.Mtn.N.P.	30.3	23.2	29.5	8.5	6.3	7.7
65	Lake Irene	Beaver Creek	"	1mi.SW.Milner P.	8-5N-75W	10600	" " " "	63.0	49.9	60.9	20.2	14.0	18.0
66	Thunderbolt Peak	Buchanan Cr.	"	5mi.E.Monarch L.	22-2N-74W	9500	Arapaho	51.5	49.9	49.3	15.3	15.1	13.3
69	Arrow	S.Ranch Cr.	"	Arrow	34-1S-75W	9900	"	33.2	27.6	34.3	8.7	8.2	9.4
70	Lapland	St.Louis Cr.	"	7mi.SW.Fraser	16-2S-76W	9300	"	35.3	33.9	39.2	10.2	10.8	10.6
79	Fremont Pass #2	Blue River	"	Fremont Pass	2-8S-79W	11400	"	52.2	52.6	57.5	16.2	14.0	15.6
91	Lynx Pass No. 2	Rock Cr.	"	7mi.NE.Toponas	27-2N-83W	9100	Routt	42.6	40.3	43.5	13.0	11.7	13.1
96	Shrine Pass	Blue River	"	Shrine Pass	15-6S-79W	10500	Arapaho	--	--	55.5	--	--	16.9
97	Grizzly Peak	" "	"	1mi.W.Loveland P.	2-5S-76W	11250	"	--	--	51.3	--	--	13.2
					Average for Drainage			43.6	38.7	46.0	13.1	11.4	13.0
	YAMPA RIVER												
6	Dry Lake	Soda Creek	Colo.	4mi.NE.Steam.Spgs.	26-7N-84W	8200	Routt	57.5	46.8	57.4	20.2	14.9	19.3
8	Columbine Lodge*	Harrison Cr.	"	Rbt.Ears Pass	21-5N-82W	9300	"	63.3	54.4	64.5	21.5	16.3	20.5
9	Elk River	IndependenceCr.	"	Columbine	6-10N-85W	8700	"	54.1	38.3	76.3	16.3	12.0	14.9
91	Lynx Pass No.2*	Morrison Cr.	"	7mi.NE.Toponas	27-2N-83W	9100	"	42.6	40.3	43.5	13.0	11.7	13.1
10	Rambler R.S.	Little SnakeR.	Wyo.	13mi.SW.Encmpmnt	25-14N-86W	8600	MedicineBow	65.9	55.0	63.0	24.2	19.4	22.0
					Average for Drainage			56.7	47.0	60.9	19.0	14.9	18.0
	WHITE RIVER												
35	Burro Mountain	N.Elk Creek	Colo.	3mi.S.Buford	15-2S-91W	9000	WhiteRiver	56.7	56.7	61.3	19.8	19.7	20.8
36	Rio Blanco	White River	"	4mi.NW.Trappers L.	28-1N-88W	8500	" "	45.8	45.5	48.3	15.4	13.5	16.4
					Average for Drainage			51.2	51.1	54.8	17.6	16.3	18.6

*On adjacent drainage @Average for period of record

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			State	Locality	Description			Av. Snow Depth			Av. Water Content		
								Av.@	1941	1942	Av.@	1941	1942
	GUNNISON RIVER							In.	In.	In.	In.	In.	In.
18	Crested Butte	Slate River	Colo.	3mi.N.Crested B.	22-13S-86W	9000	Gunnison	45.2	48.7	46.0	15.0	14.8	14.0
42	Marshall Creek	Marshall Cr.	"	Marshall Pass	24-48N-6E	10800	Cochetopa	46.8	53.6	46.2	13.8	15.8	11.9
43	Poncha Creek*	" "	"	" "	19-48N-7E	10500	"	37.7	51.1	37.2	11.6	15.4	10.8
46	Park Cone	Taylor Creek	"	Taylor Park Res.	19-14S-82W	9700	Gunnison	33.7	34.4	35.5	9.0	7.5	8.3
53	Alexander Lake	Kiser Creek	"	10mi.N.Cedaredge	2-12S-95W	10000	GrandMesa	75.3	78.9	82.8	25.3	27.0	25.4
55	Snowshoe Mesa	Snowshoe Cr.	"	16mi.NE.Paonia	14-13S-89W	7500	Gunnison	23.9	15.4	30.2	7.1	5.7	8.7
58	Ironton Park	Red Mtn. Cr.	"	5mi.S.Ouray	29-43N-7W	9800	Uncompahgre	44.3	45.8	52.3	14.8	17.8	16.3
85	Trickle Divide	Surface Cr.	"	13mi.N.Cedaredge	23-11S-94W	10000	GrandMesa	80.1	84.2	94.7	26.2	27.5	30.0
87	Park Reservoir	" "	"	11mi." "	34-11S-94W	9500	" "	77.3	75.5	88.2	24.7	26.4	26.7
89	Porphyry Creek	Porphyry Cr.	"	Monarch Pass	19-49N-6E	10800	Cochetopa	56.5	61.4	59.8	17.2	19.4	17.5
94	Sunshine Mt.No.2	Henson Cr.	"	10mi.W.Lake City	35-44N-6W	10200	Gunnison	39.6	39.2	43.0	12.1	11.8	12.6
					Average for Drainage			50.9	53.5	56.0	16.1	17.2	16.6
	DOLORES RIVER												
23	Rico	Dolores R.	Colo.	2mi.S.Rico	11-38N-11W	8700	Montezuma	29.1	33.7	26.2	8.1	10.7	5.1
24	Telluride	San Miguel R.	"	Telluride	6-42N-8W	8600	"	25.3	31.7	29.3	7.4	10.4	8.2
25	Lizard Head	Dolores R.	"	10mi.N.Rico	24-41N-10W	10300	"	56.7	61.5	58.5	17.2	19.7	16.6
90	Lone Cone	Ground Hog Cr.	"	16mi.N.W.Rico	23-41N-13W	8900	"	40.8	32.4	49.1	15.0	12.7	17.3
					Average for Drainage			38.0	39.9	40.8	11.9	13.4	11.8
	SAN JUAN RIVER												
26	Wolf Creek Pass*	Wolf Creek	Colo.	Wolf Creek Pass	4-37N-2E	10000	RioGrande	85.5	106.9	82.9	30.5	37.2	29.1
29	Upper San Juan	" "	"	4mi.W.WolfCr.P.	10-37N-1E	10000	San Juan	99.8	128.6	93.4	34.6	42.0	33.4
30	Silverton Sub.S.	Animas R.	"	2mi.NE.Silverton	10-41N-7W	9400	" "	19.8	31.3	22.8	4.7	5.0	5.1
31	Cascade	Cascade Cr.	"	5mi.N.Electra L.	12-39N-9W	8850	" "	33.5	41.5	32.0	10.8	14.2	10.3
93	Granite Peaks	Los Pinos R.	"	11mi.NE.Columbus	24-37N-6W	7950	San Juan	26.3	31.6	21.0	12.8	16.0	9.6
2	Roof Butte	Chin Lee Cr.	Ariz.	8mi.S.Lukachukai	36.4N109.1W	8500	NavajoRes	--	48.7		--	20.0	
13	Washington Pass	Tuntsa Wash	N.Mex.	12mi.NE Crystal	26.1N108.8W	8600	" "	--	36.5		--	13.5	
17	Chama Divide*	Amargo R.	"	6mi.W.Chama	36.9N106.7W	7750	OffForest	10.9	16.5	16.8	3.9	6.8	5.1
18	Chamita*	Navajo R.	"	6mi.NW.Chama	36.9N106.7W	8500	" "	36.6	--	36.6	11.0	--	11.0
					Average for Drainage			46.0	59.4	44.8	16.2	20.2	15.4

*On adjacent drainage

@Average for period of record

COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys

Issued April 10, 1950 at Fort Collins, Colorado

Table 1. Snow Depth and Water Content

COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys

Issued April 10, 1942, at Fort Collins, Colorado

No.	Main Drainage and Snow Course	Local Drainage	Location			Elev.	National Forest	Apr. 1 Snow Cover Measurements					
			State	Locality	Description			Av. Snow Depth			Av. Water Content		
								Av.@	1941	1942	Av.@	1941	1942
								In.	In.	In.	In.	In.	In.
	GILA RIVER												
11	Frisco Divide	Blue River	N.Mex.	6mi.S.Luna	31-6S-20W	8000	Apache	1.1	0.0	2.7	0.3	0.0	1.0
14	State Line	" "	" "	Alpine;Luna	6-6S-21W	8000	"	0.7	3.2	0.0	0.2	1.1	0.0
22	Taylor Creek	Taylor Creek	N.Mex.	2mi.N.E.Inmans	20-10S-10W	7850	Gila	--	--	0.0	--	--	0.0
3	Nutrioso	San Fran.R.	Ariz.	5mi.SE.Nutrioso	23-6N-30E	8500	Apache	0.6	2.9	0.0	0.2	1.0	0.0
4	Beaver Head	Castle Cr.	"	11mi.SW.Alpine	13-4N-30E	8000	"	1.2	6.1	0.0	0.6	2.9	0.0
5	Coronado Trail	Coleman Cr.	"	4mi.S. "	26-5N-30E	8000	"	1.8	9.1	0.0	0.7	3.4	0.0
6	McNary	Salt River	"	3mi.NW.McNary	14-8N-23E	7200	W.M.Ind.R.	0.0	0.0	0.0	0.0	0.0	0.0
7	Forest Dale	" "	"	5mi.SW.Showlow	2-9N-21E	6000	" " " "	0.0	0.0	0.0	0.0	0.0	0.0
8	Trout Creek	" "	"	3mi.SW.McNary	5-7N-24E	6400	" " " "	0.0	0.0	0.0	0.0	0.0	0.0
9	Milk Ranch	" "	"	4mi.W. "	28-8N-23E	7000	" " " "	0.0	0.0	0.0	0.0	0.0	0.0
					Average for Drainage			0.6	2.4	0.3	0.2	0.9	0.1
	COLORADO (Green to Virgin Rivers)												
47	G.B.E.S.Alpine*	Seeley Creek	Utah	8mi.SE.Ephraim	26-17S-4E	10200	Manti	66.9	61.6	76.3	23.4	22.4	25.2
48	Seeley Cr.R.S.#1	" "	"	9mi. " "	25-17S-4E	10000	"	64.7	62.4	78.7	22.4	21.6	25.8
48A	Seeley Cr.R.S.#2	" "	"	" " "	25-17S-4E	10000	"	52.3	53.6	61.1	17.6	18.1	20.0
51	Fish Lake	Fremont Cr.	"	2mi.SW.FishLake	35-26S-1E	8700	Fish Lake	25.5	26.4	34.0	7.2	8.2	6.7
54	Bryce Canyon N.P.*	Paria River	"	Bryce Canyon	36-36S-4W	8000	Bryce N.P.	16.6	18.6	20.1	6.3	7.4	6.6
64	La Sal Mountain	Mill Creek	"	17mi.SE.Moab	29-26S-24E	8500	La Sal	32.1	35.1	48.8	9.3	10.9	15.2
65	Buckboard Flat	Montezuma Cr.	"	6mi.W.Monticello	36-33S-22E	9000	" "	46.6	48.7	46.5	15.2	16.3	14.4
					Average for Drainage			43.5	43.8	52.2	14.5	15.0	16.3
	VIRGIN RIVER												
56	Gravel Spgs.Jnct.	Virgin River	Utah	31mi.N.Kanab	22-38S-6W	7500	Dixie	13.3	22.0	T	4.8	8.1	T
57	Harris Flat R.S.*	" "	"	29mi.SE.Cedar	24-38S-7W	7700	"	28.7	38.1	29.0	10.3	14.2	9.1
58	Duck Creek R.S.*	N.Fk.Virgin R.	"	22mi. " "	11-38S-8W	8560	"	50.9	53.1	66.2	17.7	22.8	17.4
59	Cedar Breaks*	Virgin River	"	14mi. " "	13-37S-9W	10200	"	73.8	67.5	75.0	25.6	25.1	24.8
61	Webster Flats RS.*	" "	"	11mi. " "	20-37S-9W	9200	"	55.8	59.8	57.5	20.6	23.0	19.6
					Average for Drainage			44.5	48.1	45.5	15.8	18.6	17.2

*On adjacent drainage

@Average for period of record.